

# Comparisons of Job Characteristics

**Focus Occupation:** [Electrical and Electronics Repairers, Commercial and Industrial Equipment \(49-2094\)](#)

**Associated Occupation:** [Electronics Engineers, Except Computer \(17-2072\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

## Knowledge

Similarity of Focus Occupation to Associated Occupation: 80

**Focus Occupation:** Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094)

**Associated Occupation:** Electronics Engineers, Except Computer (17-2072)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Engineering and Technology	5.7	20.8	11.7	<<	Extensive education and/or training may be required
Design	5.2	20.6	9.6	<<	Extensive education and/or training may be required
Computers and Electronics	8.4	19.7	17.5	<	Expanded education and/or training may be required
Mathematics	9.2	16.8	11.9	<<	Extensive education and/or training may be required
Physics	4.3	11.6	7.5	<<	Extensive education and/or training may be required
Production and Processing	6.0	11.1	8.4	<<	Extensive education and/or training may be required
Mechanical	6.8	9.9	16.4	>>	Current knowledge level is likely more than sufficient
Telecommunications	3.9	7.2	6.9	0	Current knowledge level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Skills

Similarity of Focus Occupation to Associated Occupation: 36

**Focus Occupation:** Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094)

**Associated Occupation:** Electronics Engineers, Except Computer (17-2072)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Systems Analysis	6.5	12.5	9.8	<	A higher skill level may be required
Quality Control Analysis	5.9	11.1	13.3	>	Skill level is likely sufficient

Systems Evaluation	6.4	10.7	9.1	<	A higher skill level may be required
Troubleshooting	4.5	10.0	12.0	>	Skill level is likely sufficient
Equipment Selection	3.3	9.0	10.5	>	Skill level is likely sufficient
Repairing	3.4	8.6	13.3	>>	Skill level is likely more than sufficient
Programming	2.2	8.1	4.8	<<	Extensive development of skills in this area may be required
Technology Design	2.6	8.1	6.3	<	A higher skill level may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Abilities

Similarity of Focus Occupation to Associated Occupation: 76

**Focus Occupation: Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094)**  
**Associated Occupation: Electronics Engineers, Except Computer (17-2072)**

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Written Comprehension	11.0	14.5	10.3	<<	Extensive improvement in abilities may be required
Information Ordering	9.9	13.3	11.1	<	Some improvement in abilities may be required
Mathematical Reasoning	6.3	12.8	8.4	<<	Extensive improvement in abilities may be required
Category Flexibility	9.0	11.6	11.9	0	Current ability level may be sufficient
Visualization	7.5	11.0	11.0	0	Current ability level may be sufficient
Originality	7.6	10.7	7.5	<<	Extensive improvement in abilities may be required
Visual Color Discrimination	6.4	10.7	10.6	0	Current ability level may be sufficient
Selective Attention	8.7	10.3	8.8	<	Some improvement in abilities may be required
Memorization	5.6	7.6	8.2	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 68

**Focus Occupation: Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094)**  
**Associated Occupation: Electronics Engineers, Except Computer (17-2072)**

Work Activities	Exclusivity of Activity
Analyze technical data, designs, or preliminary specifications	47
Communicate technical information	4
Confer with engineering, technical or manufacturing personnel	25
Determine specifications	67
Read blueprints	10
Read schematics	34

Read technical drawings	7
Understand detailed electronic design specifications	70
Use computer aided drafting or design software for design, drafting, modeling, or other engineering tasks	58
Use computers to enter, access or retrieve data	3
Use electrical or electronic test devices or equipment	40
Work as a team member	36

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Tools and Technologies that Both Occupations Have in Common

Similarity of Focus  
Occupation to Associated  
Occupation: 72

**Focus Occupation: Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094)**  
**Associated Occupation: Electronics Engineers, Except Computer (17-2072)**

Tools and Technologies	Exclusivity
Business function specific software	1
Computers	1
Content authoring and editing software	1
Data management and query software	1
Electrical measuring and testing equipment	7
Electronic and communication measuring and testing instruments	14
Finance accounting and enterprise resource planning ERP software	2
Indicating and recording instruments	2
Industry specific software	1
Information exchange software	1
Integrated circuits	18
Light and wave generating and measuring equipment	4
Network applications software	1

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.